



Park lighting

Designing your lighting solutions



170Lm/W

.....
Die-cast Housing
With tempered glass
Surge Protection 6KV
With Anti-UV lens
.....



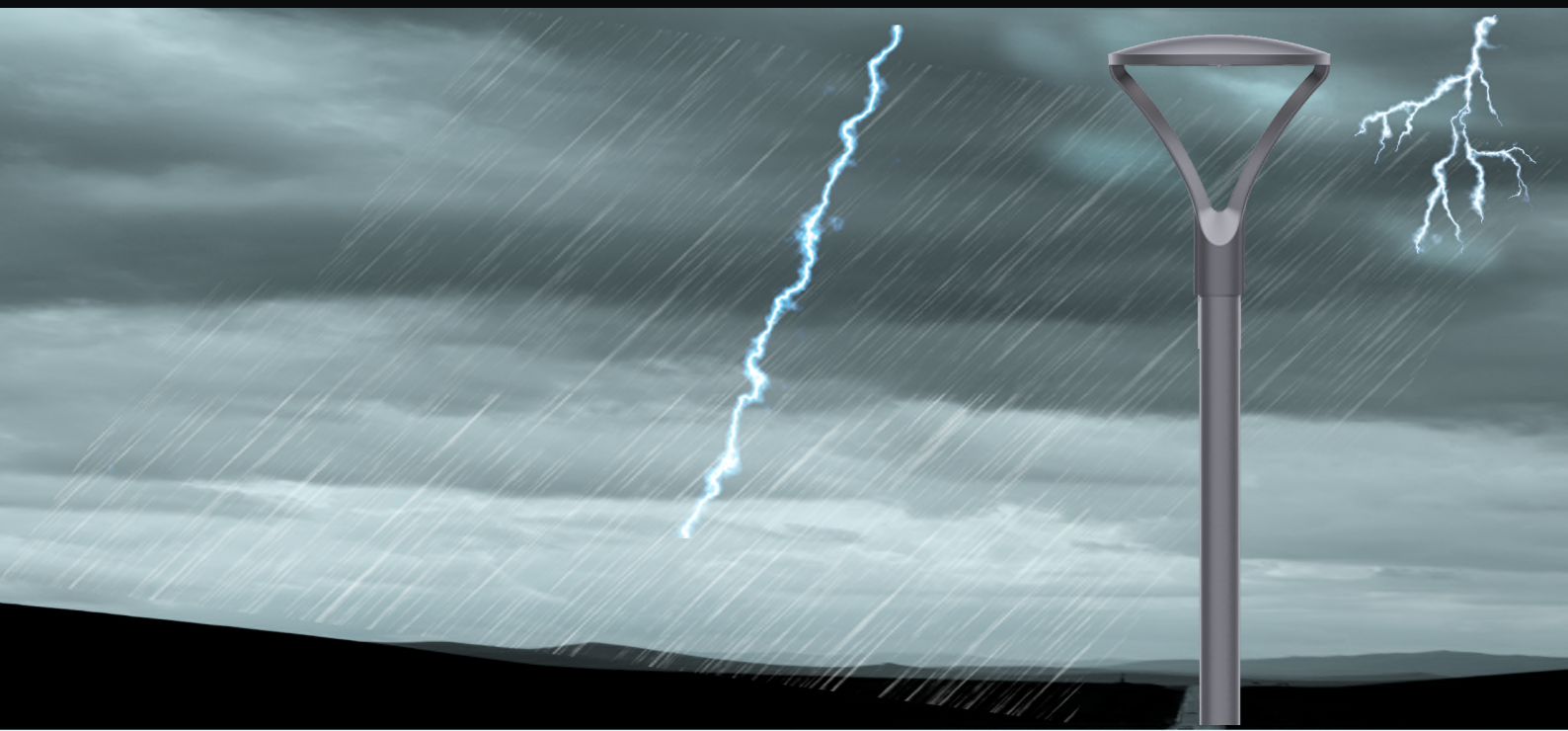
Smooth Surface

Eliminate the risk of dust and water accumulation



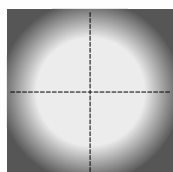
Streamlined design

minimize light loss

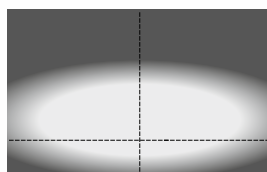




The symmetric light distribution is ideal for illuminating squares, plazas and other open areas while the asymmetric light distribution is ideal for illuminating streets and pathways.



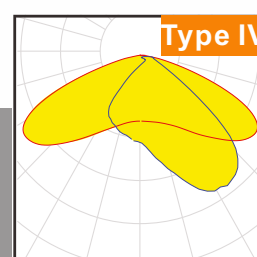
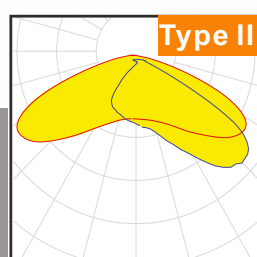
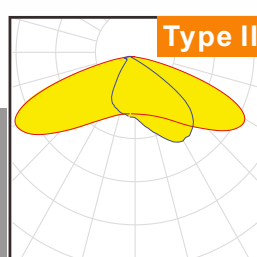
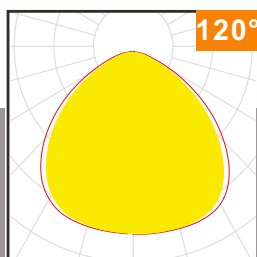
Symmetric



Asymmetric



Professional Optics



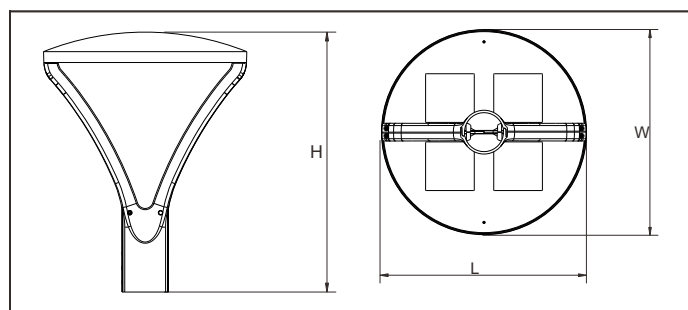
IESNA STANDARD	Roadway width / Mounting Height	
	One side mounting	Both side mounting
Type II	Up to 1 times MH	Up to 2 times MH
Type III	Up to 1.5 times MH	Up to 3 times MH
Type IV	Up to 2 times MH	Up to 4 times MH





Features

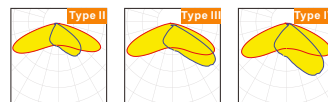
Housing: Die-cast Aluminum
 Thermal Conductivity: 96 W/m·K
 Led: Philips
 CRI: Ra>70
 SDCM: <6
 Power Factor: >0.95
 THD: <15
 Driver: Meanwell
 Driver Efficiency: >93%
 Protection: OTP, OCP, OVP, SCP
 Surge Protection: 6KV
 Waterproof: IP66
 Impact Test: IK08
 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 TM21: L90B10>50,000H
 Lifetime: 50,000H



Functions

PWM · DALI · 0/1~10V

Optical options:



170 lm/w

5 YEARS WARRANTY

Meanwell Driver

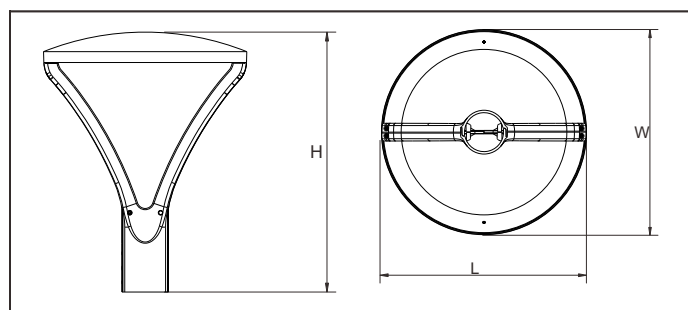
Philips LED

Model	Watt	Voltage	Lumen	CRI	IP	Dimension
LN030HE1H-PM	30W	100~277V	5100LM	>70	IP66	L422*W422*H539MM
LN040HE1H-PM	40W	100~277V	6800LM	>70	IP66	L422*W422*H539MM
LN060HE1H-PM	60W	100~277V	9600LM	>70	IP66	L422*W422*H539MM
LN090HE1H-PM	90W	100~277V	13500LM	>70	IP66	L422*W422*H539MM



Features

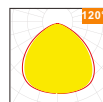
Housing: Die-cast Aluminum
 Thermal Conductivity: 96 W/m·K
 Led: Philips
 CRI: Ra>70
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 Electrical: 100-277V, 50/60Hz
 Operating Temperature: -40~50°C
 TM21: L90B10>50,000H
 Lifetime: 50,000H



Functions

PWM · DALI · 0/1~10V

Optical options:



150lm/w

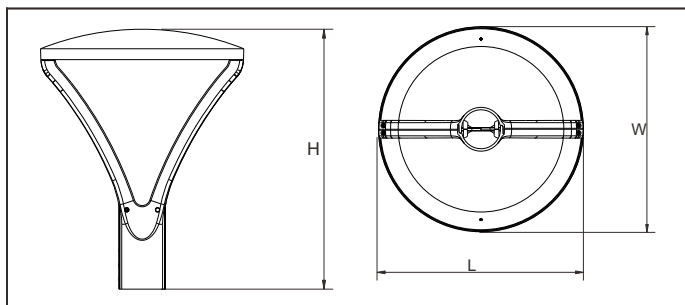
5 YEARS WARRANTY

Meanwell Driver

Philips LED

Model	Watt	Voltage	Lumen	CRI	IP	Dimension
LN030HEGH-PM	30W	100~277V	4500LM	>70	IP66	L422*W422*H539MM
LN040HEGH-PM	40W	100~277V	6000LM	>70	IP66	L422*W422*H539MM
LN060HEGH-PM	60W	100~277V	9000LM	>70	IP66	L422*W422*H539MM
LN090HEGH-PM	90W	100~277V	13500LM	>70	IP66	L422*W422*H539MM

Packing



Model	Outer Carton (mm)			QTY/CTN	N.W. (kg)	G.W. (kg)
LN030GE	520	470	227	1	5.7	6.8
LN040GE	520	470	227	1	5.7	6.8
LN060GE	520	470	227	1	5.7	6.8
LN090GE	520	470	227	1	5.7	6.8

Safety and symbols key



Certification mark

Indicates conformity with health, safety, and environmental Protection standards for products sold within the European Economic Area (EEA)

RoHS

Restriction of Hazardous Substances

The Restriction of Hazardous Substances Directive 2002/95/EC bans placement into the EU market of new electrical and electronic equipment containing more than the designated maximum allowable levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.



Electromagnetic compatibility (EMC)

Measures the ability of equipment or systems to function satisfactorily in their electromagnetic environment without introducing intolerable electromagnetic disturbance to anything in that environment.



ENEC (European Norms Electrical Certification)

A certification scheme under CENELEC, accepted throughout Europe. The ENEC Mark for electrical products demonstrates compliance with European safety standards.

WEEE

The European Waste Electrical and Electronic Equipment (WEEE)

The European Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC, as amended by 2003/108/EC, encourages the collection, treatment, recycling and recovery of waste electrical and electronic equipment.



REACH Certificate

REACH Certificate of Compliance certifies that a product is compliant with the EU REACH regulation (EC) No 1907/2006, regarding the environmental and human health protection from risks posed by chemical substances.

Standardized documents

ISTMT

ISTMT is the measurement of the LED source case temperature within the LED system (luminaire or lamp) while it is operating in its designed position and/or environment (In "Situation"). The measurement is performed at the temperature measurement point (Tc Point) indicated by the LED package manufacturer.

TM21

TM21 is the IESNA approved method for taking LM-80 data and making useful LED lifetime projections. The standards apply to lifetime projection of LED package, array or module alone. The results can then be used to interpolate the lifetime of an LED source within a system (luminaire or integrated lamp) using the in-situ LED source case temperature.

LM80 14000hrs

LM80 is the IESNA approved standard for measuring lumen maintenance of LED light sources. LM-80-08 apply to the LED package, array, or module alone, not a complete system, it is testing a component level. The standard does not provide guidance for extrapolation of testing results.

LM82

LM82 is the IESNA Approved Method for the Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature (LM-82-12) is a document which addresses the changes in photometric performance of SSL light engines and lamps with changes in temperature.

500hrs Salt Spray Test

Salt Spray Test is used to test the relative resistance to corrosion of protective coatings, when exposed to a salt mist (spray) climate at an elevated temperature. Test specimens are placed in an enclosed chamber and exposed to a continuous indirect spray of neutral (pH 6.5 to 7.2) salt water solution, which falls-out on to the specimens at a rate of 1.0 to 2.0ml/80cm²/hour, in a chamber temperature of +35C. This climate is maintained under constant steady state conditions.

IEC62722

IEC 62722 covers specific performance and environmental requirements for luminaires, incorporating electric light sources for operation from supply voltages up to 1000 V. Unless otherwise detailed, performance data covered under the scope of this standard are for the luminaires in a condition representative of new manufacture, with any specified initial aging procedures completed in a chamber temperature of +35C. This climate is maintained under constant steady state conditions.

Ingress protection rating

Rating Example

IP	6
Ingress protection	Against Solids

The first number identifies the ingress protection rating against solids

- 1 For solid bodies with dimensions > 50mm
- 2 For solid bodies with dimensions > 12.5mm
- 3 For solid bodies with dimensions > 2.5mm
- 4 For solid bodies with dimensions > 1mm
- 5 Dust protected
- 6 Dust tight

The second number identifies the ingress protection rating against liquids

- 1 For vertically falling drops
- 2 For vertically falling drops when enclosure is tilted up to 15° vertically
- 3 For water sprayed at an angle up to 60° vertically
- 4 For water splashed in any direction
- 5 For water projected in jets against the enclosure from any direction
- 6 For water projected in powerful jets against the enclosure from any direction
- 7 For enclosure's temporary immersion at 1 meter in the water, under defined conditions
- 8 For enclosure's continuous immersion in the water, under more severe conditions to those of number 7

Impact protection rating

Rating Example

IK	10
Impact protection	Mechanical Impact level

The number identifies the impact protection rating

- | | |
|-------|------------------------------|
| 00 | No protection |
| 01-05 | For tiny impact of < 1 Joule |
| 06 | For impact of 1 Joule |
| 07 | For impact of 2 Joule |
| 08 | For impact of 5 Joule |
| 09 | For impact of 10 Joule |
| 10 | For impact of 20 Joule |

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